Government of
Saskatchewan

Interim Annual Report
1991

Saskatchewan Health
Vital Statistics

1919 Rose Street
Regina, Saskatchewan
S4P 3V7

Department of Health

To the Honourable Sylvia Fedoruk
Lieutenant Governor of Saskatchewan

May It Please Your Honour:

I have the honour to present herewith, for your consideration, the Interim Report on Saskatchewan Vital Statistics for the calendar year 1991.

Respectfully submitted,

Louise Simard
Minister of Health

Department of Health

To the Honourable Louise Simard
Minister of Health

Madam:

I have the honour to forward herewith the Interim Report on Saskatchewan Vital Statistics for the calendar year 1991.

This interim report presents a concise record of those vital events which occurred in Saskatchewan during the calendar year 1991.

The Final Vital Statistics Statistical Supplement will be published following the Department of Health's receipt of additional information from Statistics Canada in Ottawa. For this reason, the data presented in this Vital Statistics Interim Report may not be reconciled with the information which will be presented in the Final Vital Statistics Statistical Supplement.

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Duane Adams
Deputy Minister of Health

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Terms and Definitions

A summary of symbols, definitions, and the method of computing rates used in this report are given below.

Definitions

Population	This report contains postcensal estimates for 1982 to 1985, 1987 to 1991, and final census figures for 1981 and 1986.
Live Births	Infants born alive, i.e., excluding stillbirths.
Stillbirths	Unless otherwise indicated, foetal deaths of 20 or more weeks' gestation.
Deaths	Excludes stillbirths.
Infant Deaths	Deaths under 1 year of age.
Neonatal Deaths	Deaths under 28 days (4 weeks) of age.
Perinatal Deaths	Foetal deaths of 20 or more weeks' gestation plus infant deaths under 7 days (1 week) of age.
Natural Increase	Excess of births over deaths.

Rates (unless otherwise indicated, computed as follows)

Live Births	: per 1,000 population
Stillbirths	: per 1,000 live births
Marriages	: per 1,000 population
Divorces	: per 100,000 population
Natural Increase	: per 1,000 population

Causes of Death

All Causes	: per 100,000 population
Infant	: per 1,000 live births
Neonatal	: per 1,000 live births
Perinatal	: per 1,000 live births and stillbirths

Notes

1. Causes of death are classified according to the 9th (1975) Revision of the International Classification of Diseases, Injuries and Causes of Death, which was put into effect on January 1, 1979.

Introduction

The Vital Statistics Interim Report presents a concise record of those vital events which occurred in Saskatchewan during the calendar year 1991. The Interim Report has been prepared in response to the requirements contained in the Tabling of Documents Act (1973). The present methods utilized in the collection of data for the Vital Statistics Statistical Supplement do not permit the tabling of the Statistical Supplement within the time frame established by this legislation. The Vital Statistics Statistical Supplement will be published following the Department of Health's receipt of the necessary information from Statistics Canada in Ottawa.

The Vital Statistics Interim Report - 1991 records vital events by place of occurrence for 1991 (vital events which occurred in Saskatchewan in 1991). It includes for example, births to Saskatchewan residents who were in the province at the time of giving birth and residents of other provinces (or countries) who were in Saskatchewan at the time of giving birth. The data in this report are based on original registration forms and do not include amendments. The Vital Statistics Statistical Supplement, on the other hand, records vital events by place of residence (vital events involving Saskatchewan residents whether or not the resident was in the province at the time of the event) and includes amended information. The vital events recorded in this report for years previous to 1991 are by place of residence.

Table 1. Summary of Vital Statistics, Saskatchewan, 1986 - 1991

Item	1986	1987	1988	1989	1990*	1991*
Population	1,010	1,014	1,011	1,007	1,000	997
Live Births	17,513	17,034	16,763	16,651	16,031	15,249
Rate++	17.3	16.8	16.6	16.5	16.0	15.3
Deaths	8,061	7,808	8,100	7,920	7,953	8,053
Rate++	8.0	7.7	8.0	7.9	8.0	8.1
Natural Increase	9,452	9,226	8,663	8,731	8,078	7,196
Rate++	9.4	9.1	8.4	8.6	7.7	7.2
Infant Deaths	157	55	140	134	123	117
Rate**	9.0	9.1	8.4	8.0	7.7	7.7
Neonatal Deaths	96	87	84	81	67	70
Rate**	5.5	5.1	5.0	4.9	4.2	4.6
Perinatal Deaths						
20+ weeks gestation	181	163	162	160	153	152
Rate+++	10.2	9.5	9.6	9.6	9.5	9.9
28+ weeks gestation	143	135	130	129	115	117
Rate+++	8.1	7.9	7.8	7.7	7.1	7.6
Stillbirths						
20+ weeks gest.	108	95	94	96	100	96
Rate**	6.2	5.6	5.6	5.8	6.2	6.3
28+ weeks gest.	70	67	62	65	62	61
Rate**	4.0	3.9	3.7	3.9	3.9	4.0
Marriages	6,820	6,853	6,767	6,637	6,229	5,922
Rate++	6.8	6.8	6.7	6.6	6.2	5.9
Divorces and Annulments	2,449	2,909	2,442	2,417	2,379	2,210

* Preliminary figures - See Introduction, page 3
** Rate per 1,000 live births
++ Rate per 1,000 population
+++Rate per 1,000 total births (live births and stillbirths)

A. Population

1. The Historical Trend

The estimated population of 996,800 for 1991 is a decrease of 0.35 per cent over the 1990 census population of 1,000,300.

Table 2. The Historical Trend in Saskatchewan Population

Year	Population (000's)
1931	922
1941	896
1951	832
1961	925
1971	926
1981	968
1986	1,010
1991	997*

* Statistics Canada Postcensal Estimate.
All other figures are final census.

2. The Percentage Distribution of the Total Population

During the past 30 years, the proportion of older people (65 years of age and over) has been increasing in Canada as a whole and in Saskatchewan. In Saskatchewan, however, the proportion of persons 65 years of age and over is greater than in Canada as a whole (13.9 percent and 11.6 percent respectively).

Table 3. Distribution of Total Population, Saskatchewan, 1991 (000's)

Age Group	Canada		Saskatchewan	
	Number	Percent	Number	Percent
Total	26,991.6	100.0	996.8	100.0
0-19	7,492.7	27.8	312.7	31.4
20-44	11,062.3	41.0	369.0	37.0
45-64	5,296.5	19.6	176.4	17.7
65+	3,140.2	11.6	138.6	13.9

Table 4. Percentage Distribution by Sex, Saskatchewan, for Selected Years

Year	Male	Female	Males per 100 Females
1921	54.6	45.4	120
1931	54.2	45.8	119
1941	53.3	46.7	114
1951	52.2	47.8	109
1961	51.8	48.2	108
1971	50.8	49.2	103
1981	50.2	49.8	101
1986	50.0	50.0	100
1991	49.7	50.3	99

B. Births

1. Live Births

During the year 1991 a total of 15,249 live births occurred in the Province of Saskatchewan. This total includes births to Saskatchewan mothers residing in the Province of Saskatchewan at the time of giving birth and those births occurring to mothers who normally reside outside the province but who were in Saskatchewan at the time of giving birth.

The total of 15,249 live births represents a birth rate of 15.3 live births per 1,000 population, slightly lower than last year's birth rate.

The 1990 live birth rates for Saskatchewan, for Canada, and for the Provinces are shown below for comparison.

Table 5. Live Birth Rates per 1,000 Population, Canada and Provinces, 1990*

Province	Rate
Canada	14.8
Newfoundland	13.8
Prince Edward Island	15.0
Nova Scotia	14.1
New Brunswick	13.5
Quebec	13.8
Ontario	14.9
Manitoba	15.9
Saskatchewan	16.7
Alberta	17.6
British Columbia	14.0

*Postcensal Annual Estimates, Statistics Canada, Cat. #91-210

2. Stillbirths

During the year 1991 a total of 96 stillbirths occurred in the province. The definition of occurrence is given in the introduction. The 96 stillbirths occurred after 20 or more weeks gestation; 61 of the stillbirths occurred after 28 or more weeks gestation. These two totals represent rates of 6.3 and 4.0 stillbirths per 1,000 live births, respectively.

C. Deaths

During the year 1991 a total of 8,053 deaths occurred within the Province of Saskatchewan. This represents a crude death rate of 8.1 deaths per 1,000 population, slightly higher than the crude death rate experienced in 1990.

The 1990 crude death rates for Saskatchewan, for Canada, and for the provinces are shown in the table below for comparison.

Table 6. Crude Death Rates per 1,000 Population, Canada and Provinces, 1990*

Province	Rate
Canada	7.3
Newfoundland	6.6
Prince Edward Island	8.6
Nova Scotia	8.5
New Brunswick	7.6
Quebec	7.2
Ontario	7.4
Manitoba	8.4
Saskatchewan	8.2
Alberta	5.7
British Columbia	7.4

* Postcensal Annual Estimates, Statistics Canada, Cat. #91-210

Table 7. Age Specific Death Rates per 1,000 Population, Saskatchewan, 1977 - 1991

Year	All Ages	Age Group Under 5	5-14	15-24	25-44	45-64	65+
1977	8.1	4.0	0.4	1.6	1.6	7.0	50.3
1978	8.2	4.0	0.5	1.3	1.6	7.3	50.2
1979	7.7	3.2	0.3	1.4	1.6	7.1	46.3
1980	8.0	3.0	0.3	1.2	1.5	7.2	48.1
1981	7.8	3.1	0.4	1.2	1.4	7.1	46.1
1982	8.4	2.6	0.3	1.3	1.3	7.7	49.8
1983	7.7	2.5	0.3	1.1	1.3	6.7	45.6
1984	7.7	2.4	0.2	0.9	1.3	6.8	45.0
1985	7.9	2.7	0.3	1.0	1.2	7.0	47.0
1986	8.0	2.3	0.3	1.2	1.2	7.2	46.5
1987	7.7	2.2	0.4	1.1	1.1	6.6	44.8
1988	8.0	2.1	0.3	1.0	1.3	6.7	46.3
1989	7.9	2.0	0.2	0.8	1.2	6.2	45.4
1990*	8.0	1.9	0.2	0.8	1.1	6.2	45.6
1991*	8.1	1.7	0.2	1.0	1.1	6.0	45.9

* Preliminary figures.

Table 8. Number of Deaths by Cause Occurring in Saskatchewan in 1991

	Deaths	Percent	Rate
All Causes of Death	8,053	100.0	807.9
01 Intestinal Infectious Diseases	2	0.0	0.2
02 Tuberculosis	2	0.0	0.2
03 Other Bacterial Diseases	23	0.3	2.3
04 Viral Diseases	19	0.2	1.9
07 Other Infectious, Parasitic Diseases	7	0.1	0.7
08 M N of Lip, Oral Cavity, Pharnyx	25	0.3	2.5
09 M N of Digestive Organs, Peritoneum	551	6.8	55.3
10 M N of Respiratory & Related Organs	491	6.1	49.3
11 M N of Bone, Skin, Breast	224	2.8	22.5
12 M N of Genitourinary Organs	352	4.4	35.3
13 M N of Other & Unspecified Sites	176	2.2	17.7
14 M N of Lymph & Haemopoietic Tissue	200	2.5	20.1
15 Benign Neoplasm	8	0.1	0.8
17 Other & Unspecified Neoplasm	31	0.4	3.1
18 Endocrine & Metabolic Diseases	208	2.6	20.9
19 Nutritional Deficiencies	3	0.0	0.3
20 Diseases of Blood/Forming Organs	41	0.5	4.1
21 Mental Disorders	93	1.2	9.3
22 Diseases of the Nervous System	226	2.8	22.7
25 Rheumatic Fever/Heart Disease	44	0.5	4.4
26 Hypertensive Disease	52	0.6	5.2
27 Ischaemic Heart Disease	1,846	22.9	185.2
28 Pulmonary & Other Heart Disease	584	7.3	58.6
29 Cerebrovascular Disease	664	8.2	66.6
30 Other Diseases of Circulatory System	243	3.0	24.4
31 Diseases of Upper Respiratory Tract	4	0.0	0.4
32 Other Diseases of Respiratory System	720	8.9	72.2
33 Oral Cavity, Salivary Glands, Jaws	1	0.0	0.1
34 Other Parts of Digestive System	308	3.8	30.9
35 Diseases of Urinary System	136	1.7	13.6
36 Diseases of Male Genital Organs	7	0.1	0.7
37 Diseases of Female Genital Organs	1	0.0	0.1
40 Indirect Obstetric Causes	1	0.0	0.1
42 Diseases of Skin	6	0.1	0.6
43 Musculoskeletal & Connective Tissue	35	0.4	3.5
44 Congenital Anomalies	56	0.7	5.6
45 Conditions in Perinatal Period	36	0.4	3.6
46 Symptoms & Ill-Defined Conditions	59	0.7	5.9
E47 Transport Accidents	195	2.4	19.6
E48 Accidental Poisoning	14	0.2	1.4
E49 Misadventures During Medical Care	14	0.2	1.4
E50 Accidental Falls	86	1.1	8.6
E51 Accidents Caused by Fires & Flames	17	0.2	1.7
E52 Other Accidents, Late Effects	86	1.1	8.6
E54 Suicide and Self-Inflicted Injury	122	1.5	12.2
E55 Homicide & Intentional Injury	19	0.2	1.9
E56 Other Violence	15	0.2	1.5

*Crude Rate per 100,000 population (Statistics Canada Population Base)

Accidents and Violence

During the year 1991 a total of 412 deaths due to accidents occurred in the Province of Saskatchewan. This represents a rate of 41.3 deaths by accident per 100,000 population in 1991 as compared to a rate of 37.4 deaths by accident per 100,000 population in 1990.

The number of suicides which occurred in Saskatchewan during 1991 was 122, a rate of 12.2 suicides per 100,000 population, down from the 1990 number of 147.

There were 19 homicides in Saskatchewan in 1991, a slight decrease from the 1990 number of 29 homicides.

D. Natural Increase in Population

In 1991 the natural increase was 7,196 and the estimated actual increase was -3,500, giving rates per 1,000 population of 7.2 and -3.5 respectively.

Table 9. Natural Increase and Actual Increase, Saskatchewan, 1978 - 1991*

Year	Population	Live Births	Deaths	Natural Increase Number	Natural Increase Rate per 1,000 pop	Est. Actual Incr. Number	Est. Actual Incr. Rate per 1,000 pop
1978	948,400	16,551	7,749	8,802	9.3	11,400	12.0
1979	959,000	16,944	7,369	9,575	10.0	10,600	11.0
1980	970,100	17,057	7,651	9,406	9.7	11,100	11.4
1981	968,313	17,209	7,523	9,686	10.0	-1,790	-1.8
1982	979,100	17,722	8,202	9,520	9.7	10,790	11.0
1983	992,700	17,847	7,611	10,236	10.3	13,600	13.7
1984	1,006,200	18,014	7,710	10,304	10.2	13,500	13.4
1985	1,019,500	18,162	8,031	10,131	9.9	13,300	13.0
1986	1,009,615	17,513	8,061	9,452	9.4	-9,885	-9.8
1987	1,014,000	17,034	7,808	9,226	9.1	4,385	4.3
1988	1,011,200	16,763	8,100	8,663	8.6	-2,800	-2.8
1989	1,007,000	16,572	7,861	8,711	8.7	-4,200	-4.2
1990	1,000,300	16,031	7,953	8,078	8.1	-6,700	-6.7
1991	996,800	15,249	8,053	7,196	7.2	-3,500	-3.5

* See footnotes in Table 1.

E. Marriages

During the year 1991 a total of 5,922 marriages occurred in Saskatchewan. This total represents a rate of 5.9 marriages per 1,000 population. Marriage rates for Canada, the Provinces, and Saskatchewan for 1990 are given below for comparison.

Table 10. Marriage Rate per 1,000 Population, Canada and the Provinces, 1990

Province	Rate
Canada	7.1
Newfoundland	6.6
Prince Edward Island	7.6
Nova Scotia	7.1
New Brunswick	7.0
Quebec	4.7
Ontario	8.2
Manitoba	7.0
Saskatchewan	6.2
Alberta	8.0
British Columbia	8.1

F. Divorces

In 1991 a total of 2,210 divorces and annulments were registered under the Vital Statistics Act in Saskatchewan at the time of publication. This does not represent the total number of divorce petitions filed in 1991 since some petitions are not yet finalized.

G. Life Expectancy

A life expectancy table is, in effect, the history of mortality of 100,000 male babies and of 100,000 female babies born at the same time. Life expectancy figures provide a graphic picture of the extent to which the saving of lives has gradually prolonged the average expectation of life and are a fairly good reflection of the general health and survival conditions at the time of their compilation.

According to the Saskatchewan life table compiled on the basis of the 1986 census, the life expectancy at birth reached an all time peak for females, 80.47 years, and for males, 73.66 years. The gain in life expectancy is greater in females. A sharp rise in the probability of death begins at age 56 for males and at 65 for females. The decrease in life expectancy is greater for males than for females.

Table 11. Life Expectancy, Saskatchewan, 1941, 1961, 1981, 1986

	Life Expectancy				Gain or Loss In Life Expectancy		
	1941	1961	1981	1986	1961 over 1941	1981 over 1961	1986 over 1981
				Males			
At Birth	65.43	70.27	72.43	73.66	4.84	2.16	1.23
20	51.28	53.49	54.35	55.28	2.21	0.86	0.93
40	33.32	34.99	35.92	36.70	1.67	0.93	0.78
60	16.82	18.10	19.09	19.62	1.28	0.99	0.53
80	5.76	6.31	7.16	7.59	0.55	0.85	0.43
				Females			
At Birth	68.19	75.93	79.61	80.47	7.74	3.68	0.86
20	53.08	58.35	60.85	61.64	5.27	2.50	0.79
40	34.96	39.09	41.64	42.28	4.13	2.55	0.64
60	18.26	21.09	23.65	24.21	2.83	2.56	0.56
80	6.38	7.29	8.94	9.40	0.91	1.65	0.46

Note: Source of figures for 1941: Life Tables for Canada and Regions, 1941 and 1931, D.B.S. Ottawa 1947. These figures have been calculated for the prairie provinces. The figures for 1961 were calculated for Saskatchewan by the Department of Health. The figures for 1981 and 1986 were taken from the Statistics Canada publication, Life Tables, Canada and Provinces, 1980-1982 and 1985-87.

H. Adoptions

There were 368 adoptions registered in Saskatchewan during 1991, compared to 705 adoptions in 1990. The total of 368 adoptions registered includes out-of-province adoptions of persons born in Saskatchewan as well as adoptions in Saskatchewan of persons born elsewhere. The noticeable decrease in adoptions can be attributed in part to the legalization of private adoptions.

I. Legal Changes of Name

During 1991 a total of 736 legal changes of name were registered in Saskatchewan. This represents a slight decrease from the 742 changes of name registered in 1990. The total of 736 does not reflect the number of persons who changed their name as each application may affect more than one person and in some cases, an entire family.